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**(54) PRODUCTION OF HYDROGEN PEROXIDE**

**(57) Abstract:**

**PURPOSE:** To efficiently produce hydrogen peroxide by a direct one stage reaction operation by reacting hydrogen with oxygen in the presence of a platinum-group catalyst in an aqueous solution.

**CONSTITUTION:** By using crystalline silica or a high-silica zeolite as the carrier for supporting a

platinum-group element for a platinum group catalyst in production of hydrogen peroxide by a direct reaction between hydrogen and oxygen in the presence of the platinum-group catalyst in an aqueous solution, hydrogen peroxide can more efficiently be produced than in case an already well-known carrier such as active carbon, amorphous silica or a zeolite having a low silica/almina ratio is used.

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